

# Work Order ID 90818

Thursday, September 27, 2012 11:46:13 AM

\*90818\*

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Page 1

Item ID: PB67-43001-85

Accept

\*N9000040100\*

Setup Start \*NS1\*

Revision ID:

Item Name: PB67-43001-85

Stop \*NS2\*

Start Date: 9/27/2012 Start Qty: 12.00

\*12\*

Cust Item ID:

Required Date: 10/12/2012 Req'd Qty: 12.00

\*12\*

Customer:

Reference:

Approvals: Process Plan: MC

Date: 12-09-27

Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

| Sequence ID/<br>Work Center ID | Operation<br>Description                           | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| <b>Draw Nbr</b>                | <b>Revision Nbr</b>                                |                      |         |        |              |               |               |                  |                |
| B67-43001-85                   | Rev C  |                      |         |        |              |               |               |                  |                |
| 100                            | Pick Kit   | 0.00                 |         |        |              |               |               |                  |                |
| <b>*100*</b>                   |  |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo   | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      |  |                      |         |        |              |               |               |                  |                |
| 110                            | Large Fab  | 0.00                 |         |        |              |               |               |                  |                |
| <b>*110*</b>                   |  |                      |         |        |              |               |               |                  |                |
| Large Fab                      | Memo   | 0.00                 |         |        |              |               |               |                  |                |
| Large Fab                      | 1- assemble and weld as per dwg B67-43001 (QSI004) |                      |         |        |              |               |               |                  |                |
| 120                            | Small Fab  | 0.00                 |         |        |              |               |               |                  |                |
| <b>*120*</b>                   |  |                      |         |        |              |               |               |                  |                |
| Small Fab                      | Memo   | 0.00                 |         |        |              |               |               |                  |                |
| Small Fab                      | 1- grind weld flush only on side of -193           |                      |         |        |              |               |               |                  |                |

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12.11.02

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12.11.02

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |      |      |     |   |                   |   |             |              |              |  |
|--|------|------|-----|---|-------------------|---|-------------|--------------|--------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |      |      |     | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |             |              |              |  |
| <b>Root Cause</b>  | Date | Step | Qty | Description of work order update or Non-conformance   | Initial Chief Eng | Action Description  | Sign & Date | Verification | QC Inspector |  |
| Doc/Data   |      |      |     |   |                   |   |             |              |              |  |
| Equip/Tooling  |      |      |     |   |                   |   |             |              |              |  |
| Operator   |      |      |     |   |                   |   |             |              |              |  |
| Material   |      |      |     |   |                   |   |             |              |              |  |
| Setup  |      |      |     |   |                   |   |             |              |              |  |
| Other  |      |      |     |   |                   |   |             |              |              |  |
| Process  |      |      |     |   |                   |   |             |              |              |  |
| Supplier   |      |      |     |   |                   |   |             |              |              |  |
| Training   |      |      |     |   |                   |   |             |              |              |  |
| Unapproved   |      |      |     |   |                   |   |             |              |              |  |

| FAULT CATEGORY  |   |   |  |   |
|---|---|---|--|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |

# Work Order ID 90818




Thursday, September 27, 2012 11:46:13 AM

**\*90818\***

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Item ID: PB67-43001-85 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: PB67-43001-85  
 Start Date: 9/27/2012 Start Qty: 12.00 **\*12\*** Cust Item ID:  
 Required Date: 10/12/2012 Req'd Qty: 12.00 **\*12\*** Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID                      | Operation<br>Description   | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp  |
|---|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|---|
| 130<br><b>*130*</b><br>QC<br>Quality Control        | QC9- Inspect visual per QSI004- Fusion Welds<br><br>Memo   | 0.00<br><br>0.00     |         |        |              |               |               |                  |                      |
| 140<br><b>*140*</b><br>QC<br>Quality Control        | QC5- Inspect part completeness to step on W/O<br><br>Memo  | 0.00<br><br>0.00     |         |        |              |               |               |                  | <br>12/11/12          |
| 150<br><b>*150*</b><br>Powdercoat<br>Powder Coating | Green Sandtex(Ref:4.3.5.8) per QSI005 4.3<br><br>Memo<br>START TIME: 9-30<br>FINISH TIME: 3200P<br>OVEN TEMPERATURE: 10-00 | 0.00<br><br>0.00     |         |        |              |               |               |                  | <br>13X ✓<br>12/11/12 |

m18144

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |   |                   |                    |             |              |              |
| Operator      |      |      |     |   |                   |                    |             |              |              |
| Material      |      |      |     |   |                   |                    |             |              |              |
| Setup         |      |      |     |   |                   |                    |             |              |              |
| Other         |      |      |     |   |                   |                    |             |              |              |
| Process       |      |      |     |   |                   |                    |             |              |              |
| Supplier      |      |      |     |   |                   |                    |             |              |              |
| Training      |      |      |     |   |                   |                    |             |              |              |
| Unapproved    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

| Landing Gear  | General                                 | Other  |
|---|---|--|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              |
|   |   | <input type="checkbox"/> Ovalized                        |
|   |   | <input type="checkbox"/> Over/Under tolerance            |
|   |   | <input type="checkbox"/> Part Incorrect                  |
|   |   | <input type="checkbox"/> Part Lost/Missing               |
|   |   | <input type="checkbox"/> Part Moved                      |
|   |   | <input type="checkbox"/> Positioned Wrong                |
|   |   | <input type="checkbox"/> Power Loss/Surge                |
|   |   | <input type="checkbox"/> Pressure/Forced                 |
|   |   | <input type="checkbox"/> Temperature/Cure                |
|   |   | <input type="checkbox"/> Weld                            |
|   |   | <input type="checkbox"/> Wrong Stock Pulled              |
|   |   | <input type="checkbox"/> Other                           |

# Work Order ID 90818

Thursday, September 27, 2012 11:46:13 AM

**\*90818\***

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Item ID: PB67-43001-85

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Item Name: PB67-43001-85

Stop **\*NS2\***

Start Date: 9/27/2012 Start Qty: 12.00 **\*12\***

Cust Item ID:

Required Date: 10/12/2012 Req'd Qty: 12.00 **\*12\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description                   | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 160                            | QC3- Inspect Part Finish                   | 0.00                 |         |        |              |               |               |                  |                |
| <b>*160*</b>                   |  |                      |         |        |              |               |               |                  |                |
| QC                             | Memo                                       | 0.00                 |         |        |              |               |               |                  |                |
| Quality Control                |  |                      |         |        |              |               |               |                  |                |
| 170                            |  | 0.00                 |         |        |              |               |               |                  |                |
| <b>*170*</b>                   | PURCHASING                                 |                      |         |        |              |               |               |                  |                |
| Purchasing                     | Memo                                       | 0.00                 |         |        |              |               |               |                  |                |
| Purchasing                     | SEND TO TALMAR FOR FOAM AND FABRIC         |                      |         |        |              |               |               |                  |                |
| 180                            | Receive & Inspect for Damage & Mat'l Certs | 0.00                 |         |        |              |               |               |                  |                |
| <b>*180*</b>                   |  |                      |         |        |              |               |               |                  |                |
| Packaging                      | Memo                                       | 0.00                 |         |        |              |               |               |                  |                |
| Packaging                      |  |                      |         |        |              |               |               |                  |                |

13x d All 12/11/12

710' 18393

CZ 12/11/13 (13)

Packaging (13)

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |   |                   |                    |             |              |              |
| Operator      |      |      |     |   |                   |                    |             |              |              |
| Material      |      |      |     |   |                   |                    |             |              |              |
| Setup         |      |      |     |   |                   |                    |             |              |              |
| Other         |      |      |     |   |                   |                    |             |              |              |
| Process       |      |      |     |   |                   |                    |             |              |              |
| Supplier      |      |      |     |   |                   |                    |             |              |              |
| Training      |      |      |     |   |                   |                    |             |              |              |
| Unapproved    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

|   |   |   |  |   |
|---|---|---|--|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|---|---|---|--|---|

# Work Order ID 90818

Thursday, September 27, 2012 11:46:13 AM

**\*90818\***

Page 4

Item ID: PB67-43001-85 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: PB67-43001-85  
 Start Date: 9/27/2012 Start Qty: 12.00 **\*12\*** Cust Item ID:  
 Required Date: 10/12/2012 Req'd Qty: 12.00 **\*12\*** Customer:  
 Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID                | Operation<br>Description   | Set Up/<br>Run Hours     | Tool ID         | Tool #  | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp                |
|---|--|--------------------------|-----------------|---------|--------------|---------------|---------------|------------------|-------------------------------|
| 190<br><b>*190*</b><br>QC<br>Quality Control  | QC6- Inspect dimensions to drawing<br><br>Memo                     | 0.00<br>0.00<br>12/20/08 | DAS<br>15<br>09 | 13<br>9 |              | 13            |               |                  |                               |
| 200<br><b>*200*</b><br>Packaging<br>Packaging | Identify as per dwg & Stock Location: <u>ST</u><br>382<br><br>Memo | 0.00<br>0.00             |                 |         |              |               |               |                  | 12/12/10 13                   |
| 210<br><b>*210*</b><br>QC<br>Quality Control  | QC21- Final Inspection - Work Order Release<br><br>Memo            | 0.00<br>0.00             |                 |         |              |               |               |                  | 12/12/10 JF<br>MF<br>12-12-09 |

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |      |      |     |   |                      |   |                |              |              |  |  |
|--|------|------|-----|---|----------------------|---|----------------|--------------|--------------|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |      |      |     | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> |                      | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                |              |              |  |  |
| <b>Root Cause</b>  | Date | Step | Qty | Description of work order update<br>or Non-conformance  | Initial<br>Chief Eng | Action<br>Description   | Sign &<br>Date | Verification | QC Inspector |  |  |
| Doc/Data <input type="checkbox"/>                            |      |      |     |   |                      |   |                |              |              |  |  |
| Equip/Tooling <input type="checkbox"/>                       |      |      |     |   |                      |   |                |              |              |  |  |
| Operator <input type="checkbox"/>                            |      |      |     |   |                      |   |                |              |              |  |  |
| Material <input type="checkbox"/>                            |      |      |     |   |                      |   |                |              |              |  |  |
| Setup <input type="checkbox"/>                               |      |      |     |   |                      |   |                |              |              |  |  |
| Other <input type="checkbox"/>                               |      |      |     |   |                      |   |                |              |              |  |  |
| Process <input type="checkbox"/>                             |      |      |     |   |                      |   |                |              |              |  |  |
| Supplier <input type="checkbox"/>                            |      |      |     |   |                      |   |                |              |              |  |  |
| Training <input type="checkbox"/>                            |      |      |     |   |                      |   |                |              |              |  |  |
| Unapproved <input type="checkbox"/>                          |      |      |     |   |                      |   |                |              |              |  |  |

| FAULT CATEGORY  |   |   |  |   |
|---|---|---|--|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions | <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |



# Picklist Print

Thursday, September 27, 2012 11:46:13 A

Page 1

Work Order ID: 90818

Parent Item: PB67-43001-85

Parent Item Name: PB67-43001-85

Start Date: 9/27/2012

Required Date: 10/12/2012

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP rev A new issue 08.06.19 EC verified: DD IPP rev B 10.09.30 per rev C  
dwg EC verified by:DD

| Component Item ID/<br>Item Name    | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand  | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|------------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|-----------------|-------------|--------------|---------------|----------------|--------|
| PB67-43001-191<br>D-Pad Back Plate |                        | Manufactured  | No          | B 90888             |                  | 110<br>13       | Each               | 18.0000         | 1           | 12           |               | 12.11.01       | 13     |
|                                    |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|                                    |                        |               |             | Mezz                |                  | 18              |                    |                 |             | 13           |               |                |        |
|                                    |                        |               |             | 41568               |                  | 18              |                    |                 |             |              |               |                |        |
| PB67-43001-193<br>D-Pad Base       |                        | Manufactured  | No          |                     |                  | 110             | Each               | 48.0000         | 1           | 12           |               | 12.11.01       | 13     |
|                                    |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|                                    |                        |               |             | ST438               |                  | 48              |                    |                 |             | 13           |               |                |        |
|                                    |                        |               |             | 53299               |                  | 48              |                    |                 |             |              |               |                |        |
| PB67-43001-195<br>D-Pad Face       |                        | Manufactured  | No          | B 90889             |                  | 100<br>13       | Each               | 0.0000          | 1           | 12           |               | 12.11.01       | 13     |
| PB67-43001-339<br>D-Pad Top        |                        | Manufactured  | No          |                     |                  | 110             | Each               | 21.0000         | 1           | 12           |               | 12.11.02       | 13     |
|                                    |                        |               |             | <u>Location</u>     |                  | <u>Loc Qty</u>  |                    | <u>Loc Code</u> |             |              |               |                |        |
|                                    |                        |               |             | ST439A              |                  | 21              |                    |                 |             | 13           |               |                |        |
|                                    |                        |               |             | 53300               |                  | 21              |                    |                 |             |              |               |                |        |

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

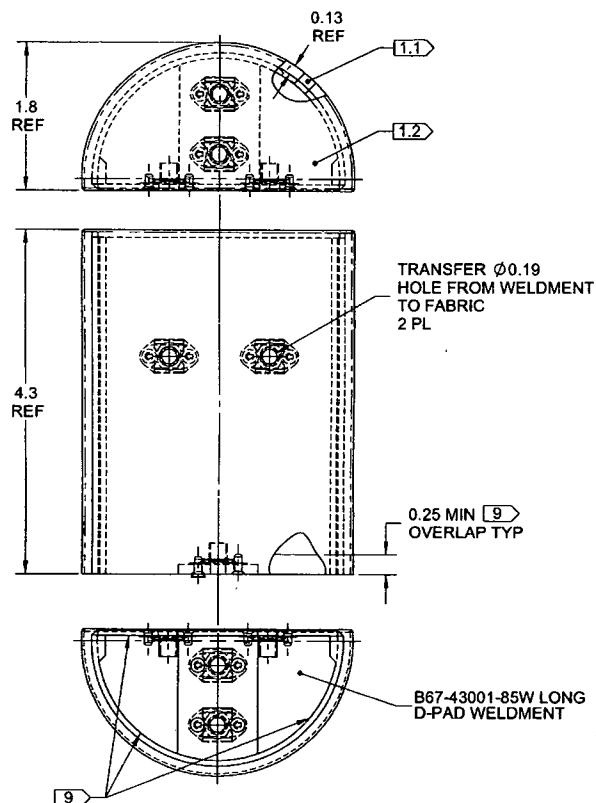
QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |  |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|--|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>   | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>   | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>   | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>  |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

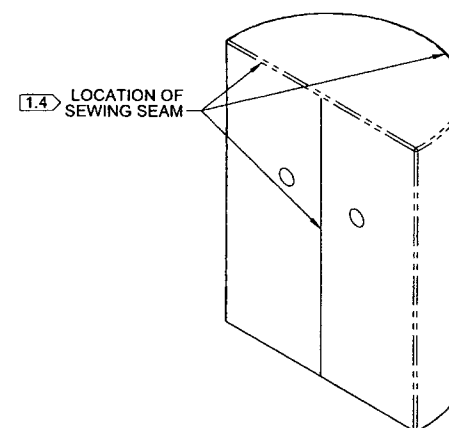
| Root Cause    | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |   |                   |                    |             |              |              |
| Operator      |      |      |     |   |                   |                    |             |              |              |
| Material      |      |      |     |   |                   |                    |             |              |              |
| Setup         |      |      |     |   |                   |                    |             |              |              |
| Other         |      |      |     |   |                   |                    |             |              |              |
| Process       |      |      |     |   |                   |                    |             |              |              |
| Supplier      |      |      |     |   |                   |                    |             |              |              |
| Training      |      |      |     |   |                   |                    |             |              |              |
| Unapproved    |      |      |     |   |                   |                    |             |              |              |

**FAULT CATEGORY**

| Landing Gear  | General                                 | Other  |
|---|---|--|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              |
|   |   | <input type="checkbox"/> Ovalized                        |
|   |   | <input type="checkbox"/> Over/Under tolerance            |
|   |   | <input type="checkbox"/> Part Incorrect                  |
|   |   | <input type="checkbox"/> Part Lost/Missing               |
|   |   | <input type="checkbox"/> Part Moved                      |
|   |   | <input type="checkbox"/> Positioned Wrong                |
|   |   | <input type="checkbox"/> Power Loss/Surge                |
|   |   | <input type="checkbox"/> Pressure/Forced                 |
|   |   | <input type="checkbox"/> Temperature/Cure                |
|   |   | <input type="checkbox"/> Weld                            |
|   |   | <input type="checkbox"/> Wrong Stock Pulled              |
|   |   | <input type="checkbox"/> Other                           |



| ITEM | QTY.<br>-85 | P/N           | DESCRIPTION          |
|------|-------------|---------------|----------------------|
| 1    | X           | B67-43001-85  | D-PAD ASSEMBLY, LONG |
| 2    | 1           | B67-43001-85W | LONG D-PAD WELDMENT  |
| 3    | A/R         | 1637-002      | SEE NOTE 1.1         |
| 4    | A/R         | 1495          | SEE NOTE 1.2         |
| 5    | A/R         | LA4009        | SEE NOTE 1.3         |
| 6    | A/R         | 2530          | SEE NOTE 1.4         |



**B67-43001-85 D-PAD ASSEMBLY, LONG**

**NOTES:**

- 1) MATERIAL:
  - 1.1) FOAM: ETHYLENE PROPYLENE NEOPRENE SBR CLOSED-CELL, FLAME RETARDANT, 0.125 THICK, PER ASTM D1056 2A2, SERVICE TEMP -40°F TO +200°F, COLOUR: BLACK REF. TULMAR P/N 1637-002
  - 1.2) FABRIC: 100% 420 DENIER NYLON, MIN THREAD COUNT 35X35, POLYURETHANE COATED ONE SIDE, COLOUR: BLACK REF. TULMAR P/N 1495
  - 1.3) ADHESIVE: URETHANE WITH CATALYST, TWO PART, CLIFTON LA4009 --
  - 1.4) THREAD: NYLON, BLACK, V-T-295 TYPE 2, CLASS A, SIZE F, 8-10 STITCHES PER INCH REF. TULMAR P/N 2530
- 2) FINISH: BOND NEOPRENE TO COVER PLATE USING ADHESIVE. COVER WITH DENIER AS SHOWN.
- 3) TOLERANCES: PER TABLE 1 (ZN A3-1) UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.42 lbs REF
- 8) NUTPLATES AD HOLES MUST REMAIN FREE OF ADHESIVE AND FABRIC
- 9) DENIER NYLON TO OVERLAP BY 0.25 MIN AND BE BONDED ALL AROUND INNER SIDES OF PLATE

**TABLE 1**

| TOLERANCES ON FABRIC<br>(PARTS AND ASSEMBLIES) |
|--|
| ± 1/8: DIMS < 2                                |
| ± 1/4: DIMS 2 TO < 10                          |
| ± 1/2: DIMS 10 TO < 20                         |
| ± 5/8: DIMS 20 TO < 40                         |
| ± 1.5%: DIMS EQUAL TO OR > 40                  |

|            |  |  |              |          |
|------------|--|--|--------------|----------|
| C          | REDRAWN PREMIER AVIATION DRAWING IAW DART QSI 018, QSI 043 AND TULMAR SAFETY SYSTEMS INC.'S MANUFACTURING PROCESS AND TOLERANCES ON FABRIC. FOR PREVIOUS REVISIONS, REFER TO SHEET 12 OF PREMIER AVIATION DRAWING NO. B67-43001. REASON: SEE PAR#09-011. |  | MB           | 10.04.27 |
|            | REV.   | DESCRIPTION  | BY           | DATE     |
| DESIGN     | RW   | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA   |              |          |
| DRAWN      | AW   |  |              |          |
| CHECKED    | MS   | DRAWING NO.  | REV. C       |          |
| MFG. APPR. | MS   | B67-43001-85   | SHEET 1 OF 2 |          |
| APPROVED   | MS   | TITLE  | SCALE        |          |
| DE APPR.   | N/A  | D-PAD ASSEMBLY, LONG   | NTS          |          |
| DATE       | 10.04.27   | COPYRIGHT © 1995 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |          |

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

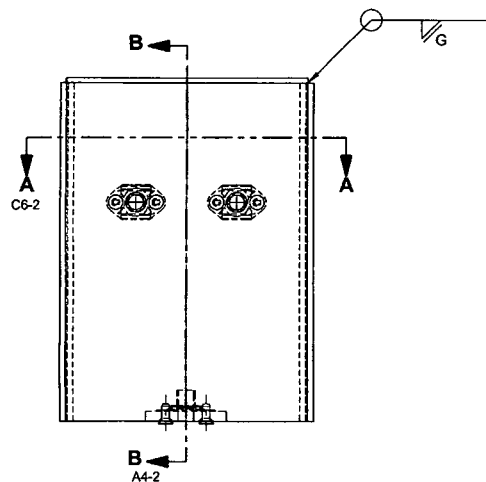
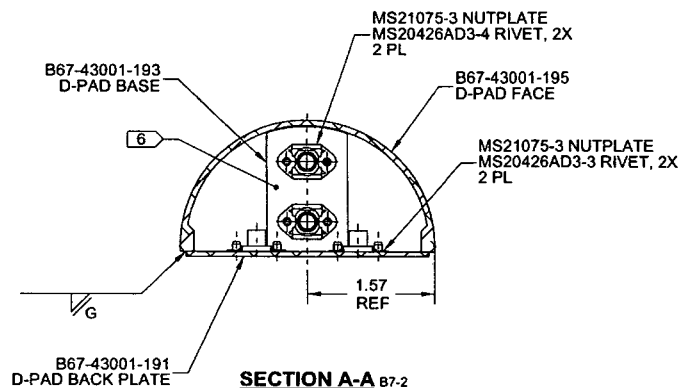
QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

|  |   |   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Work Order Update <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Skid-tube <input type="checkbox"/></td> <td style="width: 25%;">Crosstube <input type="checkbox"/></td> <td style="width: 25%;">Water Jet <input type="checkbox"/></td> <td style="width: 25%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>  | Water Jet <input type="checkbox"/>  | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>  | Prod. Eng. Coord. <input type="checkbox"/>  | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>  | Rec/Store/Packaging <input type="checkbox"/>  | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>  | Supplier <input type="checkbox"/>   |                                      |                                    |                                    |                                      |                                    |                                    |  |                                  |  |                                    |  |                                |                                    |                                    |                                   |  |

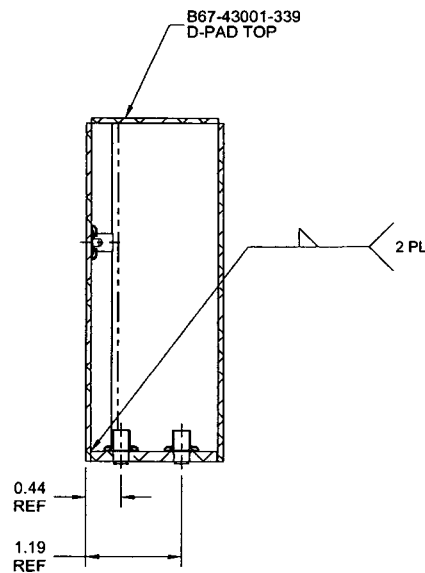
| Root Cause                             | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |   |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Setup <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Other <input type="checkbox"/>         |      |      |     |   |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |   |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |   |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |   |                   |                    |             |              |              |

### FAULT CATEGORY

|   |   |   |
|---|---|---|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric to O/S<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crushed/Crimped<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Ripples in Bend<br><input type="checkbox"/> Torque Waves in Extrusion<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damaged<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Folio | <input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Offset<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><input type="checkbox"/> Outside Dimensions |
| <input type="checkbox"/> Ovalized<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge  |   |   |
| <input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other   |   |   |







**B67-43001-85W D-PAD WELDMENT, LONG**



| ITEM | QTY<br>-85W | P/N           | DESCRIPTION         |
|------|-------------|---------------|---------------------|
| 1    | X           | B67-43001-85W | LONG D-PAD WELDMENT |
| 2    | 1           | B67-43001-191 | D-PAD BACK PLATE    |
| 3    | 1           | B67-43001-193 | D-PAD BASE          |
| 4    | 1           | B67-43001-195 | D-PAD FACE          |
| 5    | 1           | B67-43001-339 | D-PAD TOP           |
| 6    | 4           | MS20426AD3-3  | RIVET               |
| 7    | 4           | MS20426AD3-4  | RIVET               |
| 8    | 4           | MS21075L3     | NUT PLATE           |

- NOTES:**
- 1) MATERIAL: NONE
  - 2) FINISH: POWDER COAT GREEN SANDTEX (4.3.5.8) PER DART QSI 005 4.3
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "B67-43001-85W" AND B/N "BXXXXX" USING FINE POINT PERMANENT INK MARKER
  - 7) WEIGHT: 0.42 lbs
  - 8) WELDING: PER DART QSI 004

|   |   |  |              |
|---|---|--|--------------|
| DESIGN  | R/W   | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN   |  | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED   |  | DRAWING NO.                            | REV. C       |
| MFG. APPR.  |  | B67-43001-85                           | SHEET 2 OF 2 |
| APPROVED  |  | TITLE                                  | SCALE        |
| DE APPR.  | N/A   | D-PAD ASSEMBLY, LONG                   | NTS          |
| DATE  | 10.04.27  | COPYRIGHT © 1995 BY DART AEROSPACE LTD |              |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |   |  |              |

RELEASED  
2010-09-16  
MB

Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

er: \_\_\_\_\_

### DISPOSITION

Rework ☐  
 Scrap ☐  
 Use-as-is ☐  
 Work Order Update ☐

### AGAINST DEPARTMENT/PROCESS

|  |                                    |  |                                      |
|--|------------------------------------|--|--------------------------------------|
| Skid-tube <input type="checkbox"/>     | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/>           | Engineering <input type="checkbox"/> |
| Machining <input type="checkbox"/>     | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/>   | Quality <input type="checkbox"/>     |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>       |
| Large Fab <input type="checkbox"/>     | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/>            |                                      |

| Use        | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| /Data      |      |      |     |   |                   |                    |             |              |              |
| Tooling    |      |      |     |   |                   |                    |             |              |              |
| erator     |      |      |     |   |                   |                    |             |              |              |
| Material   |      |      |     |   |                   |                    |             |              |              |
| Setup      |      |      |     |   |                   |                    |             |              |              |
| Other      |      |      |     |   |                   |                    |             |              |              |
| Process    |      |      |     |   |                   |                    |             |              |              |
| Supplier   |      |      |     |   |                   |                    |             |              |              |
| Training   |      |      |     |   |                   |                    |             |              |              |
| Unapproved |      |      |     |   |                   |                    |             |              |              |

### FAULT CATEGORY

| Landing Gear  | General                                 |  |   |
|---|---|--|---|
| <input type="checkbox"/> Bending                      | <input type="checkbox"/> Bend           | <input type="checkbox"/> Grain                           | <input type="checkbox"/> Ovalized             |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route      | <input type="checkbox"/> Hardware                        | <input type="checkbox"/> Over/Under tolerance |
| <input type="checkbox"/> Cracks                       | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete           | <input type="checkbox"/> Part Incorrect       |
| <input type="checkbox"/> Crushed/Crimped              | <input type="checkbox"/> Burrs          | <input type="checkbox"/> Instructions Incomplete/Unclear | <input type="checkbox"/> Part Lost/Missing    |
| <input type="checkbox"/> Cuffs                        | <input type="checkbox"/> Contamination  | <input type="checkbox"/> Maintenance                     | <input type="checkbox"/> Part Moved           |
| <input type="checkbox"/> Heat Treat                   | <input type="checkbox"/> Countersink    | <input type="checkbox"/> Mislabeled                      | <input type="checkbox"/> Positioned Wrong     |
| <input type="checkbox"/> Inspection Strip in Tube     | <input type="checkbox"/> Cut Too Short  | <input type="checkbox"/> Misread                         | <input type="checkbox"/> Power Loss/Surge     |
| <input type="checkbox"/> Ripples in Bend              | <input type="checkbox"/> Drill Holes    | <input type="checkbox"/> Offset                          | <input type="checkbox"/> Pressure/Forced      |
| <input type="checkbox"/> Torque Waves in Extrusion    | <input type="checkbox"/> Drawing        | <input type="checkbox"/> Out of Calibration              | <input type="checkbox"/> Temperature/Cure     |
| <input type="checkbox"/> Turning Sequence             | <input type="checkbox"/> Finish         | <input type="checkbox"/> Out of Sequence                 | <input type="checkbox"/> Weld                 |
| <input type="checkbox"/> Wave/Twist in Tube           | <input type="checkbox"/> Folio          | <input type="checkbox"/> Outside Dimensions              | <input type="checkbox"/> Wrong Stock Pulled   |
|   |   |  | <input type="checkbox"/> Other                |



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1953

## PURCHASE ORDER

Purchase Order ID **PO18393**

Purchase Order Date 11/13/12

PO Print Date 11/13/12

Page Number 2 of 2

**Order From :**

VC-TUL001

TULMAR SAFETY SYSTEMS  
1123 CAMERON ST  
HAWKESBURY, ON K6A 2B8  
CA

**Contact Name**

**Vendor Phone**

**Vendor Fax**

**Vendor Account Nbr**

613 632 1282

613 632 2030

**Buyer**

**Requisition Nbr**

**Tax Resale Nbr**

**Terms**

**Currency**

**FOB**

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

4

90818

PB67-43001-85 D-PAD  
ASSEMBLY LONG

11/30/12

13.00 Dart Truck

\$50.0000

\$650.00

Yes

**Special Inst:** FOAM AND FABRIC AS PER DWG.PB67-  
43001-85

**PO Total:**

**\$5,260.00**

CERTIFICATE OF CONFORMITY  
REQ'D UPON DELIVERY

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

Change Nbr:

1

Change Date:

11/13/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required (YES) NO





# PACKING SLIP

# TULMAR

Tulmar Safety Systems Inc.  
1123 Cameron Street  
Hawkesbury, ON K6A 2B8 CA  
Tel: 613-632-1282  
Fax: 613-632-2030  
MID : XOTULSAF1123HAW  
email: info@tulmar.com

Packing Slip No.

**46104**

Ship Date

3-Dec-12

Bill To:

**Dart Aerospace**  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7. Canada

Ship to:

**Dart Aerospace**  
1270 Aberdeen Street  
Call: Chantal Lavoie  
Tel: 613-632-9577  
Hawkesbury, ON K6A 1K7. Canada

| Order number | Sales order date       | Account number | Account manager      |
|--------------|------------------------|----------------|----------------------|
| 29528        | 14-Nov-12              | CDART100       | Helena Vandeweerd    |
| PO number    | Ship Via               | Shipping Terms |                      |
| PO18393      | Pick-Up                | FOB HAWKESBURY |                      |
| Item No.     | Quantity ordered       | UOM            | Qty Shipped/Returned |
| Description  | Quantity on back order |                |                      |

|  |    |    |    |
|--|----|----|----|
| 8421-105<br>Cover Plate, 20%<br>Drawing No: B67-43001-73<br>DWG Rev: C<br>Line 2 | 12 | EA | 12 |
|--|----|----|----|

**Lot No:** BATCH0000000006 Qty: 12

|  |    |    |    |
|--|----|----|----|
| 8421-101<br>D-Pad Assembly, Short/<br>Drawing No: B67-43001-83<br>DWG Rev: C<br>Line 3 | 25 | EA | 25 |
|--|----|----|----|

**Lot No:** BATCH0000000009 Qty: 25

|   |    |    |    |
|---|----|----|----|
| 8421-102<br>D-Pad Assembly, Long/<br>Drawing No: B67-43001-85<br>DWG Rev: C<br>Line 4 | 13 | EA | 13 |
|---|----|----|----|

**Lot No:** BATCH0000000007 Qty: 13

Shipper

Date:

DEC 03 2012

**Certificate of Conformance**

☒ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.  
If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

Date:

*Roxanne Lanthier*

DEC 03 2012



# J. ENNIS FABRICS LTD.

*Wholesale Distributor of Textiles and Supplies*

August 31, 2012

Fax To: Tulmar Safety Systems

Fax: 613-632-2030

Attention: Meagan

**EDMONTON**  
HEAD OFFICE  
12122 - 68 Street  
Edmonton, AB T5B 1R1  
Canada  
Phone: (780) 474-5721

**TORONTO**  
6300 Kenway Drive  
Mississauga, ON L5T 2N3  
Canada

**CALGARY**  
2nd Floor, 337 - 17 Avenue SW  
Calgary, AB T2S 0A5  
Canada

**VANCOUVER**  
13911 Bridgeport Road  
Richmond, BC V6V 1J6  
Canada

**MONTREAL**  
9280 boulevard du Golf  
Anjou, QC H1J 3A1  
Canada

## Certificate of Conformance

Re: PO# 23876-00 for Oxford 7 Black

The goods shipped on P/O 23876-00 are as per sampled goods. Specification as follows:  
As per mill documentation:

**Oxford 7 Black** is in compliance with the following standards:

**Width:** Product is 58 Inches Wide.

**Roll Size:** Average Roll Length is 75 Yards.

**Weight:** Product Weight is 6.79 Ounces per Sq.Yd. /Product Weight is 10.94 oz per Lin.Yd

**Content:** 100% Nylon

**Coating:** Product has a Polyurethane Coating (approximately 0.65 oz/ Sq.Yd. (18.5g/sq.yd.))

**Denier:** Yarn is 420 Denier.

*57/12/15*

**Thread Count:** Construction is 62 x 38 Threads per Square Inch

**Protective Finish:** Product is Water Repellent.

**Hydro Resist:** AATCC 127 (Suter): Average 800 mm

**Piece # 107904351 Manufacture Date:** 07/20/12, Lot Number: 412019

Sincerely,  
J. Ennis Fabrics Ltd.

*C. Harris*

Crystal Harris  
Customer Service Center Team Lead/Supervisor

English: 1-800-66-ENNIS

Fax: (780) 479-6135  
www.jennisfabrics.com

Français: 1-888-66-ENNIS

*c/c's to mbg  
B67-43001-85 Rev.C  
D. J. D.*

*TSS 1495 / B# 25 (S)*

|                  |   |                 |  |
|------------------|---|-----------------|--|
| E.F. Walter Inc. | <b>CERTIFICAT DE CONFORMITÉ<br/>CERTIFICATE OF COMPLIANCE</b> |                 | Approved <b>JR</b><br>Date <b>1/3/02</b> |
| Revision # 0     | Revision date: January 30, 2002                               | Doc # F.7.5.5.A | Page 1 of 1                              |

Date : 04/14/2009

VENDU À  
SOLD TO

6048

TULMAR SAFETY SYSTEMS INC.

1123 CAMERON STREET

HAWKESBURY

ONT

K6A 2B8

FOURNISSEUR  
VENDOR

E.F. WALTER INC.

180 BARTOR ROAD

TORONTO, ONTARIO

M9M 2W6

Commande / Order # 15534-00

Notre / Our Reference # 59448

Nous certifions par la présente que la totalité du matériel inscrit ci-dessous a été inspecté et vérifié et est conforme aux devis et aux normes mentionnés sur votre commande.

We hereby certify that all of the material listed below has been inspected and tested and conforms to the drawings and / or specifications stated on your purchase order.

| Item      | Quantité<br>Quantity | Pièce #<br>Part # | Description  |
|-----------|----------------------|-------------------|--|
| 742012007 | 15 sheets            | 1637-002          | SC 42 BLACK -TRIMMED - NO SKIN 1/8" TH X 42" X 72" |
|           |                      |                   | LOT# 84277 MFG DATE: 03/22/09                      |
|           |                      |                   |  |
|           |                      |                   |  |
|           |                      |                   |  |
|           |                      |                   |  |
|           |                      |                   |  |
|           |                      |                   |  |
|           |                      |                   |  |
|           |                      |                   |  |

Signé  
Signed

TSS # 1637-602/02



American & Ebird Inc.  
Post Office Box - 507  
Mount Holly, NC - 28120

Certificate of Compliance

Date : 3/23/2011

Mfg. Date : 3/27/2010

Lot Id : 705150

Quantity: 43

Product : Tex 90 BONDED Z NYLON FILAMENT Black AA 63002 16 OZ

Specification : A-A-59826 TPII CLA F BT92N4

Customer Order Number : 17499-00

Plys (Visual) : 4

Customer : Tulmar Safety Inc.

Twist Direction : Z

Shipped To : Tulmar Safety Inc.

A&E Color : 63002 Black  
AA

**Description** : Bright, Continuous Multifilament Nylon, Melting Point >472F; Colorless Nylon Polymer Bond,  
Polypropylene Spools

| Characteristic                                 | Test1  | Test2 | Test3 | Test4 | Test5 | Average | Minimum | Maximum |
|--|--------|-------|-------|-------|-------|---------|---------|---------|
| Strength #1 (Pound)                            | 15.2   | 15.7  | 15.6  | 15.7  | 15.8  | 15.6    |         |         |
| Strength #2 (Pound)                            | 15.4   | 15.1  | 15.2  | 15.4  | 14.8  | 15.2    |         |         |
| Average Strength (Pound)                       |        |       |       |       |       | 15.4    | 11.8    |         |
| Elongation #1 (Percent)                        | 20.5   | 22.4  | 21.8  | 22    | 21.8  | 21.7    |         |         |
| Elongation #2 (Percent)                        | 22.3   | 21.4  | 21.9  | 22.5  | 21.1  | 21.9    |         |         |
| Average Elongation (Percent)                   |        |       |       |       |       | 21.8    |         | 26      |
| Lube   |        |       |       |       |       |         |         |         |
|  |        |       |       |       |       |         | Pass    | Pass    |
| Twist S #1 (Turns per inch)                    | 12.2   | 12.2  | 12.2  | 12.2  | 12.2  | 12.2    |         |         |
| Twist S #2 (Turns per inch)                    | 12.2   | 12.2  | 12.2  | 12.2  | 12.2  | 12.2    |         |         |
| Average Twist S (Turns per inch) Initial Twist |        |       |       |       |       | 12.2    |         |         |
| Twist Z #1 (Turns per inch)                    | 8.1    | 8.1   | 8.1   | 8.1   | 8.1   | 8.1     |         |         |
| Twist Z #2 (Turns per inch)                    | 8.1    | 8.1   | 8.1   | 8.1   | 8.1   | 8.1     |         |         |
| Average Twist Z (Turns per inch) Final Twist   |        |       |       |       |       | 8.1     | 5.5     |         |
| Yield #1 (Yards/Pound)                         | 4211.8 |       |       |       |       | 4211.8  |         |         |
| Yield #2 (Yards/Pound)                         | 4114.7 |       |       |       |       | 4114.7  |         |         |
| Average Yield (Yards/Pound)                    |        |       |       |       |       | 4163.2  | 3601    | 5200    |
| Laundry #1 (Grading Scale)                     | 5      |       |       |       |       | 5       |         |         |
| Laundry #2 (Grading Scale)                     | 5      |       |       |       |       | 5       |         |         |
| Average Laundry (Grading Scale)                |        |       |       |       |       | 5       | 3       | 5       |
| Dry Cleaning #1 (Grading Scale)                | 5      |       |       |       |       | 5       |         |         |
| Dry Cleaning #2 (Grading Scale)                | 5      |       |       |       |       | 5       |         |         |

|   |   |   |     |   |
|---|---|---|-----|---|
| Average Dry Cleaning (Grading Scale)            |   | 5 | 3   | 5 |
| Perspiration #1 (Grading Scale)                 | 5 | 5 |     |   |
| Perspiration #2 (Grading Scale)                 | 5 | 5 |     |   |
| Average Perspiration (Grading Scale)            |   | 5 | 3   | 5 |
| Color Fastness to Light #1 (Grading Scale)      | 5 | 5 |     |   |
| Color Fastness to Light #2 (Grading Scale)      | 5 | 5 |     |   |
| Average Color Fastness to Light (Grading Scale) |   | 5 | 3.4 | 5 |

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed: *Joseph D. Munday*

Joseph D. Munday  
Testing Director

Note:

This Certificate of Compliance is the property of American & Efird Inc. and may not be reproduced except in its entirety.

Save as PDF

TSS 2530/50 @

FAXED  
9-7-12

# CLIFTON

## Adhesive, Inc

### Industrial Adhesives & Coatings

*A Division of Royal Adhesives and Sealants*

Date: 9/7/12

LA4009

Shipper #: 21841

#### Certificate of Compliance

This letter certifies that 44 x 5 gallon pails of LA4009 Polyurethane Adhesive, *8/21/12/13*

lot number (S) 12-236 was shipped to you on 9/7/12.

\*\*Drawing No: (Ref 10557979)

\*\*DWG REV: "A"

Clifton Adhesive, Inc manufactured this material according to internal specifications which include quality control and assurance procedures. The material was manufactured on 8/23/12 against your Purchase Order # 23716-00.

Shelf Life: 1 year from date of manufacture  
Expiration Date: 8/23/13

This letter certifies that 34 x quart cans of CATUV Accelerator,

Lot number 12-229 was shipped to you on 9/7/12.

Clifton Adhesive, Inc manufactured this material according to internal specifications which include quality control and assurance procedures. The material was manufactured on 8/16/12 against your Purchase Order # 23716-00.

Shelf Life: 1 year from date of manufacture  
Expiration Date: 8/16/13

Sincerely,

*Dan Constantino*

Daniel Constantino  
Quality Assurance Mgr/ISO Coordinator

48 Burgess Place • Wayne, NJ 07470 USA  
Phone: 973-694-0845 • Fax: 973-694-5678  
[www.cliftonadhesive.com](http://www.cliftonadhesive.com)

TSS 7122/54 (2)